

RAINBOW CANYONS AMATEUR RADIO CLUB NEWSLETTER

CEDAR CITY, UTAH



Club Websites: www.rcarc.info OR www.rainbowcanyons.com Number 4 – Vol. 9 – September, 2022

Club Meeting Information

The RCARC meets at 7:00 p.m. on the 2nd Tuesday of each month at the Cedar City Senior Center, 489 E. 200 South. Down Stairs.

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CQ, CQ, - Happy Labor Day
Everyone.



Presidents Message

Greetings Everyone,

It has been a busy Summer! Our August BBQ was a wonderful gathering and it looked like everyone had a good time (the rain did not seem to 'dampen' anyone's mood!) and a few even tried out the radio direction finding gear!

It is always great to see everyone's enthusiasm and willingness to help out our fellow members. A big Thank you to Brody (K7VXV) and Terry West for helping with the cooking and to everyone who participated by bringing food and helping with set up and clean up. The Airport Disaster Drill was an interesting activity and our local HAMs had an important role.

I hope you can share your radio enthusiasm with others and I hope you will play on the radio more! I hope everyone has been getting out on the radio! Have fun, and play on your radio.

Continued on Page 2

RCARC Club Nets:

7:00 a.m. Breakfast Net - Monday – Saturday – 146.760.
12:30 p.m. Daily – Utah Beehive Net On 7.272.
8:30 p.m. Tuesday's - ORCA Digital Net. Using FLDIGI, FLMSG AND FLAMP – 3.581 +, 1500/MFSK32.
8:00 p.m. Wednesday – Panguitch Net – 147.160.
7: pm. Thursday– Morse Code Net- This is a Zoom Meeting.
8:30 p.m. Thursday's - WDN Digital Net. Using FLDIGI, FLMSG AND FLAMP – 3.581 +, 1500/MFSK32.
8: p.m. Saturdays – SSTV – 449.925.
9:00 p.m. Daily – Friendship Net – 146.760.
11: a.m. Saturdays (Mtn. Time) QCWA – 160 Net, Utah Chapter,
12: p.m. Freq. 7.272.
7:30 pm. Sunday's – New Harmony Valley Net – Bumblebee Repeater. – 146.680 with a minus offset – PL 100.

Local Repeaters:

Iron Mountain

146.760 MHz – Tone 123.0 Hz
146.980 MHz – Tone 100.0 Hz
448.800 MHz – Tone 100.0 Hz
449.500 MHz – Tone 100.0 Hz
448.400 MHz – Tone 100.0/FM & DMR

Intermountain Intertie:

146.940 MHz – Tone 100.0 Frisco.
146.800 MHz – Tone 100.0 Blow Hard
147.200 MHz + Tone 100.0 Tod's/Hatch
146.820 MHz – Tone 100.0 Utah Hill

Bumblebee/New Harmony:

146.680 MHz – Tone 100.0 Hz

Rowberry:

449.925 MHz – Tone 100.0 VHF Remote

Dutton:

147.160 MHz + Tone 100.0 Hz.

Save The Date

September 13, 2022

RCARC Club Meeting.

7:00 pm. Cedar City Senior Center,
489 E. 200 South. **Presentation.**
"Surviving a Rad / Nuke event"

October 11, 2022

RCARC Club Meeting.

7:00 pm. Cedar City Senior Center,
489 E. 200 South. **Program to be
determined.**

November 8, 2022

RCARC Club Meeting.

7:00 pm. Cedar City Senior Center,
489 E. 200 South. **Program to be
determined.**

December 13, 2022

RCARC Club Meeting.

7:00 pm. Cedar City Senior Center,
489 E. 200 South. **Program to be
determined**

President's Message

Continued from page 1.

As we move into Fall the temperatures will be falling and you might want to get out a bit more. Remember if you need help with setting up your radio, software or other equipment please ask your fellow HAMs for help.

Part of the fun is helping others! As always, I would like to thank everyone who makes our meetings great by asking questions. I would also like to thank all of our net controls for the nets and everyone who participates!

We will have our next monthly meeting Sept. 13th starting around 7:00pm at the Cedar City Senior Center.

Continued next column

This month we will have a presentation on radiation, how to detect it and protect yourself from it. Hope you can all make it!

Cheers!

Fred (KI7TPD)

Save the Date

Cedar City Half Marathon

**September 10, 2022. Cedar
Canyon.**



Contact Ron K7HDX)



**Happy Birthday and
Anniversary to those
celebrating in September**





Breakfast & Friendship Net Awards August 2022

Breakfast Net		Friendship Net		
First Place	Third Place	First Place	KK7CEE - Bruce	
K7ZI, Dick	KI7SCX - John	KA7J Lance	N7TCW - Merlin	
N7SIY - Sylvia		K7NKH - Lee	Second Place	
KI7WEX - Bonnie		KJ7LTQ - Brant	K7WEP - Paul	
KI7TPD - Fred		K7ZI - Dick	W6DLW - Dennis	
KG7PBX - Linda		KI7TPD - Fred	Third Place	
		KI7WEX - Bonnie	WA7GVL - Paul	
Second Place		N7SIY - Sylvia		
KE7ZIM - Johnny		KI7LUM - Bruce		
KI7LUO - Melody		KK7FLL - Maddie		

Rainbow Canyons Amateur Radio Club Treasurer Report as of Aug 9, 2022

Bank balance (reconciled) July 1, 2022	\$2,002.05
Membership deposits	+ 65.00
KI7LVB, KI7LVC, Brough, Thomas, WA7GVL	
Checks/expenses	
Various Field day expenses	- 297.58
propane, antenna trailer equip & supplies, food, etc.	
Rocky Mountain Power	<u>- 18.75</u>
Funds in bank as of 7/30/2022	\$1,750.72

Outstanding membership deposits	+ 20.00
Rocky mountain Power due 8/16/2022	<u>- 24.94</u>
Funds available after Aug 16, 2022	\$ 1,745.78

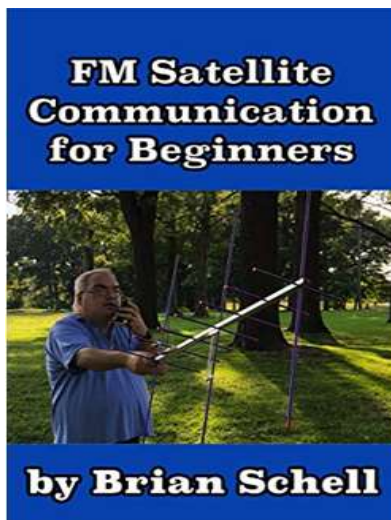
Submitted by
Linda Shokrian KG7PBX
2022 RCARC Treasurer
435-867-5914

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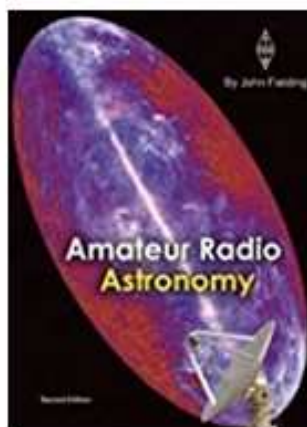
RCARC July Book Giveaway. Books are donated by Linda Shokrian (KG7PBX)

Shown below is one of the 2 books that will be given away at the September 13, 2022 meeting.



RCARC Book Giveaway Winners.

The winner of the August 12, 2022 book giveaway (pictured below) is Shanda Badger (KK7CTI)



**Congratulations
Shanda
See Pic on page 11**

Contact Us.

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Face Book Page:

<https://www.facebook.com/groups/440325486875752/>

To Join RCARC or Pay Dues:

Go to www.rcarc.info select "Club Info" and then "Join " RCARC. Follow the instructions on the template.

Make check payable to RCARC.
Please write call sign on check.

Thank You

RCARC September Meeting Program

Title is "Surviving a Rad / Nuke event". Presentation will cover basics of radiation, fallout, IND versus dirty bomb and how to prepare an expedient home shelter. Some sealed check sources will be available if anyone wants to see if their rad meter actually works.



Buzz's September Safety Tip(s)



9 Fall Safety Tips That Will Keep Your Family Safe This Season

It's that time of year again- pumpkin spice everything, Halloween decorations lining store shelves, leaves changing colors, and crisp morning air.

The fall also brings some hazards we need to be cautious about. But with the right **fall safety tips**, you can still enjoy everything you love about this time of year.

Living in Utah means we get to enjoy four beautiful seasons, each with their own amazing features. But it's important to understand how to **stay safe in specific weather conditions**.

These essential fall safety tips will help make sure you enjoy the season to the fullest and avoid unnecessary injuries or accidents

1. Be Cautious of Back-to-School Traffic

School is back in full swing, which means that there's **more traffic on the roads** in the morning and late afternoon. You might have noticed it takes a little longer to get to work now.

Be alert when you're crossing the street or driving in a school zone. People can be absent minded in the morning as they rush around trying to get their kids to school and make it to work on time.

2. Don't be Fooled by Falling Leaves

The fall is a gorgeous time of year- those green leaves turn to wonderful shades of brown, yellow, red, and orange and fall to the ground in those piles we love to jump in.

Continued next column

But falling leaves can pose a hazard, no matter if you're driving or walking. Leaves can be very slippery, which is a big trigger for **autumn slip and falls**.

Jumping in piles of leaves can also be dangerous and **lead to injury if you're not cautious**. You never know what kind of garbage or debris ended up in that pile you just raked. This is especially important if you live on a busy street.

3. Get Your Fire Safety up to Speed

This time of year, when the temperature starts dropping, means we're putting away our bathing suits and getting our boots out. It also means we're starting to get back to our heating equipment.

Your furnace and heaters have been sitting untouched all summer long. Turning them on at the first sign of chilly air without properly inspecting and servicing them can be a **big fire hazard**. Be sure to get an **inspection of your heating systems** and anything else that hasn't been used in a while.

If you have a wood burning fireplace, make sure you follow the proper safety procedures when using it. Keep the screen shut and make sure that the flu is clean, open, and free from debris.

Fall is also a time when a lot of people like to break out their candle collection and get cozy on a chilly evening. However, **misuse of candles** is one of the biggest **causes of house fires** in Utah. Always make sure you blow out your candles before you leave a room and never leave open flame unattended.

Continued on page 6

Buzz's September Safety Tips

Continued from page 5

4. Avoid Slip and Falls from The Rain

In the fall, we get a lot of rain. And rain can often cause surfaces to be slippery, especially when it's cold and takes the water longer to evaporate.

This is a recipe for **harmful slip and falls** that can leave you with serious injuries.

When you're outside, double check everything before you use it or walk on it. For example, if you need to clean out your gutters, examine the ladder before you climb it. The rungs could be wet and slippery, causing a potential slip and fall.

Sidewalk grates are often slippery when wet, so take caution walking down the street. Walk with your hands free just in case you fall.

5. Be Prepared for Unexpected Cold Weather

It's fall in Utah, which means that the temperature **could be hot one day and cold the next**. In fact, it could drop at any minute.

Always be prepared if you're going out for the night, especially if you're going to be outdoors for any period of time. Make sure you have an extra jacket, scarf, or hat in case the temperature drops unexpectedly.

If you don't have an emergency car kit in your vehicle, now is a good time to make sure you have one in there before winter starts.

6. Wash Your Hands Constantly

While the fall brings back some of our favorite things, like pumpkin spice everything and NHL hockey, it also brings something we all hate- **cold and flu season**.

If you've recently recovered from a major injury, like a traumatic brain injury, one cold or flu could set your recovery process back.

Continued on next column

Wash your hands frequently, and use hand sanitizer if you can't wash them. Any time you touch a publicly used item, like a railing or a subway handle, make sure you lather up and **avoid touching your face**.

7. Make Sure Your Batteries Are in Order

Test your batteries and replace them if necessary. Make sure you have backups on hand in case of power outages or other emergencies.

As we mentioned earlier, **house fires are common in the fall** because of the change in temperature and the fact that people are turning on their heaters after months of inactivity.

Make sure your smoke detectors, carbon monoxide detectors, and other important emergency devices are in working order and have fresh batteries.

8. Practice Caution When Taking Your Kids Trick or Treating

The fall season also brings Halloween! Kids and adults alike always look forward to this time of year, when we can dress up and pretend to be whatever we want for the day.

However, there are some **major risks on Halloween** that could put your kids' lives at stake. No one wants to risk that.

Read up on these [essential trick or treating safety tips](#) to keep the kiddos safe as they head door to door in their favorite costumes.

9. Wear Something Reflective When Walking at Night

It's starting to get darker earlier, but that doesn't mean that the dog still doesn't need to be walked. At this time of year, it's starting to get dark before we even get home from work, which doesn't leave much time outside in the daylight.

Make sure you **wear reflective clothing** if you're out at night. You should also put [reflective materials](#) on your dog's collar or leash to make sure they're visible to people driving by.



Vol. 4

SEPTEMBER, 1922

No. 3

Radio Shows

WHEN radio was young, there was no necessity for a Radio Show or Radio Exposition. With radio becoming popular and taking the public's fancy, a number of individuals have come to the conclusion that one of the most important things in the radio world at present is a Radio Show.

Now the function of a Radio Show or Exposition, the same as that of an Automobile Show or Electrical Show, is definite and well understood. As a rule, it has the sole purpose of bringing the manufacturers and the public closely together. Not only that, but the jobbers and the dealers in the respective businesses have a chance to see the new products of the manufacturers, meet the manufacturers themselves, and look over their new line. A Radio Show has exactly the same function. If properly managed, properly advertised, and held once a year, such an exposition is a wonderful boon for all concerned. Unfortunately for the young radio industry, the radio show business has assumed proportions which deserve the strongest denunciation, and if there are many more radio shows being staged by every individual who takes it into his head to run such a show, the radio industry will soon have a much blacker eye than it had in the old days of the wireless stock jobbing which retarded the art for at least ten years.

We have no quarrel with any one individual who stages a Radio Show, except that we call the public's attention to the fact, that, with the exception of one or two such expositions, *there has not been one that made money* for either the exposition or the exhibitors. In other words, with possibly two exceptions, all the radio shows so far staged have been failures.

The reason is obvious. When, last Winter, the first New York Radio Show was held, every manufacturer of note was represented. A manufacturer who is busy and has his hands full is not inclined to take the time and money to be represented at a dozen radio shows each month. It simply cannot be done.

Imagine the automobile industry being asked to exhibit from six to twelve times a month in cities varying from the largest down to towns of the size of 20,000 inhabitants! The automobile industry would never stand for it, because they know that in the long run it would be a detriment to the industry. The fault, of course, does not lie with the exhibition itself. If there is a yearly exhibition in our large centers—let us say towns with not less than 500,000 inhabitants—then we believe that the radio industry at large will not be averse to contributing space and time, as well as money, to these shows. But if there are dozens and even hundreds of these shows going on all the time, it stands to reason that such exhibitions must be failures. There being but few exhibitors, nothing of interest will be seen at the shows and when this becomes public no one will attend. This has been the case in nearly every instance recently, and it seems surprising that the individuals who are organizing these shows do not see the light but still continue to stage these absurdities, for reasons best known to themselves.

The great and unprecedented number of radio shows, the organizing of which may be termed the "radio show business"—an industry by itself—is no doubt due to promoters. It usually works in this wise:

A few men get together and proceed to rope in some man or men who are known to have money. Then they show him figures of the radio industry, also reprints of publications showing the unqualified success of the first New York Radio Show, where thousands of people were turned away and which show actually made a handsome profit. With such figures it is, as a rule, easy to ensure some foolish investors who imagine that they can clean up a small fortune from such a show. Of course, the promoters realize full well that this cannot be done, but before the show closes it has been possible for them to pull the wires in such a way that most of the fortune has gone into their own pockets.

If every investor who is asked to finance a radio show were shown this editorial this parasite on the radio industry would soon be exterminated.

We have heard of and seen exhibitions at which scarcely a dozen manufacturers were represented. The public was so adversely impressed by these affairs that radio in these towns, instead of progressing, actually has been retarded for years. The next radio show that is held in such a city or town will fare even worse, due to the poor impression made by the first one.

The Editors believe that there should not be more than one show a year, at the most, in any of our large centers. If there are more, they become mischievous and defeat the very object sought. If, as we suggest, the shows and exhibitions are confined to cities of over 500,000, then we would have radio shows only in the following cities:

New York	Boston
Chicago	Pittsburgh
Philadelphia	Los Angeles
Detroit	Buffalo
St. Louis	San Francisco

We believe no manufacturer would object to this, providing the time element was such that he was not asked to exhibit at the same periods of time in the various cities.

It may be assumed from past experience (and we believe we shall not be seriously contradicted by any of the old manufacturers), that the radio season is between October first and April first. In other words, all the radio exhibitions should be staged during this period. We certainly believe that it would be the best idea for all the manufacturers to get together and vote on such a plan. If there was an agreement between all the principal manufacturers that they would not attend any shows except along the lines outlined above, we believe that it would help the industry tremendously. An exhibition would then be a credit to the entire industry, because every one would be represented and the public would take note.

RADIO NEWS believes its mission is to enhance the radio industry wherever it is possible. For that reason it has taken upon itself to append a coupon at the bottom of this page, and the Editors invite manufacturers to fill out this blank and return it immediately upon receipt of this issue. The full results will, if all the returns are in, be published in the next issue of RADIO NEWS. Any suggestions will be gladly received by the Editors.

H. GERNSBACK.

VOTING BLANK

We, the undersigned, ^{are} _{are not} in favor of the plan outlined above. We suggest the following:

There should not be more than _____ Radio Shows in the United States during the period of one year.

We ^{are} _{are not} in favor of agreeing with other manufacturers on such a plan.

(Signed) _____

By _____

RCARC August Meeting and Barbecue

RCARC Club members met at the Cedar City Main Street Park for the August Club Meeting and Barbecue. Just under 50 members came together to meet new members and place a call sign with a face even with the threat of rain all around.

In addition, several members participated in Fox Hunting or Direction-finding scenarios.
(See Pictures below).



The food tables are being prepped for serving.

Continued next column



The barbecuing of dogs and burgers is underway.



Kevin (K2MFK) gets the food line started.



Club members wrapped around the food table to fill their plates.

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RCARC August Meeting and Barbecue

Continued from page 8



The line keeps moving.



The barbecue festivities are underway.



A meeting of the minds while they waited their turn in line to enjoy the barbecue. **Contd. next column.**



George Gallis (AL7BX) giving the group an update on the status of the area repeaters.



Brant (KJ7LTQ) showing these two new young technician class hams how to use this homemade Direction Finding (DF) unit.



David North (W6FJN) honing in on the hidden beacon.

The Singing Valise: 1922



April 1922. Chicago. "The Singing Valise -- F.W. Dunmore, of the U.S. Bureau of Standards radio laboratory, with radio built in suitcase." Underwood & Underwood photo.

Government Expert Astounds Gathering of Engineers with Demonstration of Singing Valise -- Explains Small Instrument Capable of Controlling Mechanism at Great Distances

CHICAGO, May 19 -- "The Singing Valise," or "Talks-as-it-walks," may be the latest thing in radiotelephone reception, displayed to the amazement of delegates attending the American Institute of Engineers meeting here last month at the Drake Hotel, by F.W. Dunmore of the radio laboratory of the U.S. Bureau of Standards. Incidentally, it may be pointed out that the engineers at their spring meeting are paying a great deal of attention to radio ...

Mr. Dunmore has a small suit case about one-third the size of an average grip. In the body of the suit case, he has batteries, condensers and other paraphernalia of a radiophone receiver. Neatly packed in the cover part is a loud speaker and a loop aerial of tiny wire. The only opening in the sides of the valise is for the mouth of the loud speaker.

Continued next column

What It Does.

While the engineers were gathered in the French Room of the Drake, all windows closed, Mr. Dunmore opened the grip, turned the aerial director toward the Westinghouse broadcasting station KYW, and at once the voice of the announcer of a radio news service was heard.

"That's easy," said Mr. Dunmore, and, closing the satchel, he took hold of the handle and walked about the room. The news bulletins continued to come and were heard in all parts of the room. He walked to every corner of the room and the voice continued until KYW, having completed the news bulletins, signed off.

The reception of radio in a set enclosed in a leather case and all within the confines of the steel, concrete and brick structure of the hotel, amazed even those of the engineers who thought they had seen the very latest in radio reception.

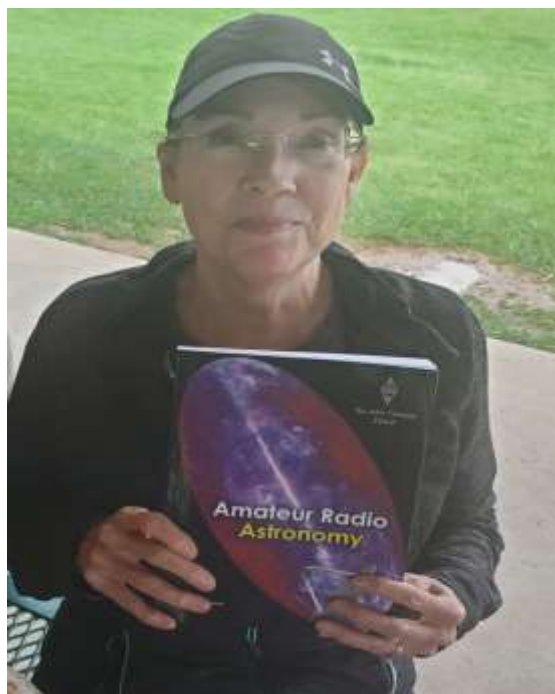
Of greater practical importance, however, was the relay recorder for remote radio control, which Mr. Dunmore displayed and which he described at length in a written report to the engineers.

This instrument, not more than 15 inches square by eight inches deep, contained the mechanism by which ordinary radio telegraph code signals can be strengthened so as to make them operate and control mechanisms at great distances.

By this instrument, also from the radio laboratories of the United States bureau of standards, airships, automobiles, or units of power, electric light, and water plants can be controlled.

A machine equipped with the proper apparatus can be operated by radio through this instrument, said Mr. Dunmore. "We have perfected the instrument to furnish the control. The matter of equipping machinery to respond to this control will be simple."

**August 12th book givaway
winner is Shanda Badger
(KK7FTI).**



Congratulations Shanda

ARRL Simulated Emergency Test: Consider Running It Under the ICS

Trending in incidents, events, activations and exercises these past few years has been their administration under the Incident Command System (ICS). Two months ago, a club in rural northern Florida conducted its Field Day under the system, with an Incident Commander and assistants for Safety, Liaison and Public Information; and chiefs for operations, finance/administration, logistics, and planning. This system translated into a winning scenario for the club: scores proved it, the county sheriff and emergency manager made appearances, and safety was the primary concern with no incidents noted

Continued next column

Traditionally, the System is used by public agencies to manage emergencies, but the ICS can also be used by businesses and many other entities, including ARES, as an administration model. ARES emergency coordinators and members can become familiar with the fundamental concepts of incident command and coordinate planning with local public emergencies services accordingly.

The use of ICS by an ARES group - or any group for that matter -- depends upon the size and complexity of the "incident" or event. Functions and roles may be assigned to multiple individuals or a few persons may be assigned multiple responsibilities. Not all of the ICS positions need to be activated in each incident: The ICS structure is meant to expand and contract as the scope of the incident requires. For small-scale incidents, only the incident commander may be assigned. Command of an incident would likely transfer to the senior on-scene officer of the responding public agency when emergency services arrive on the scene.

For an amateur radio exercise such as the ARRL Simulated Emergency Test (SET), the Emergency Coordinator could, for example, assume the title of IC or Communications Unit Leader (COML) and rank-and-file ARES members can assume other roles in the Communications Unit (COMU). The Communications Unit, a critical function within the Logistics Section is designed to support the operable and interoperable communications needs for planned events, unplanned events, and exercises

Key COMU positions that can be assigned to ARES members in the SET include:

- Communications Unit Leader (COML)
- Incident Communications Center Manager (INCM)
- Communications Technician (COMT)
- Incident Tactical Dispatcher (INTD)
- Radio Operator (RADO)
- IT Service Unit Leader (ITSL)

Continued on page 19

Hints & Hacks

Gripping Coax Connectors

It is usually best to finger-tighten the threaded shells of coaxial connectors, so they can be easily removed.

That's good advice, until you need to unscrew an especially stubborn shell.

Even a shell that's been finger tightened can become difficult to remove over time.



An inexpensive rubber jar-opening pad is ideal for dealing with overtightened connectors as shown above.

My solution is to use one of those rubber pads that are intended to help open ultra-tightened food jars and bottles.

They go by many names and are available at many grocery stores. The grippy rubber pads are inexpensive and are ideal for loosening difficult connectors. They also came in handy when it was time to attach a connector, allowing you to finger-tighten with the best of them. 73 Cameron Baily, KT3A. kt3a@arrl.net.



Ker-chunking

The practice of briefly keying a microphone (hitting the push-to-talk/PTT button) to see if a repeater responds with a courtesy tone is commonly known as ker-chunking (or ker-chunking) in ham-speak.



Don't do it! Don't be a ker-chunker, even though it's often a quick and convenient way of verifying that you can hit a repeater. For one, it is technically illegal. All transmissions must be identified (with rare exceptions).

Just because you hear it happening and the probability of getting caught is very low doesn't make it right.

However, the main reason not to key a mic without identifying yourself is that it is both annoying and disruptive. It's bad etiquette and almost always discouraged in published guidelines by the repeater owner.

If you really want to test your connection to a repeater, take the extra second to speak your call sign into the mic. Or say "testing", followed by your call sign. Or ID and ask for a signal report, which will give you even more info than just to hear a courtesy tone.

On a related note, if you want to test transmit power or SWR or something like that, consider using a simplex frequency to avoid tying up a repeater.

FCC Hiring for High Frequency Direction Finding Center

The Federal Communications Commission (FCC) has started accepting applications for a Telecommunications Specialist at its High Frequency Direction Finding Center (HFDFC) in Columbia, Maryland.

HFDFC supports the FCC [Over-the-Air spectrum observation capabilities](#), and provides direct support to the public safety community and other federal partners by locating interference sources on HF radio spectrum (below 30 MHz). The Center is part of the FCC's Public Safety and Homeland Security Bureau in the Operations and Emergency Management Division.

The duties for the incumbent are described at www.usajobs.gov/job/665764100 and include performing "watch duty" and serving as a technical authority providing technical assistance and guidance to communication systems users to resolve radio interference complaints and problems, and collecting radio signal analysis information. Using radio signal analysis equipment deployed throughout the United States to collect, correlate, and analyze characteristics of radio signals involved in interference problems, distress or safety-related signals, or other radio signals involved in other high-priority activities, such as law enforcement or national defense, to include HF, VHF, and UHF. Collecting radio signal analysis information; analyzing complaints, inquiries, and comments from multiple sources; investigating compliances with the FCC's rules and regulations, and determining the appropriate actions utilizing the FCC's remote HF network of radio direction finders and radio signal analysis equipment.

Developing definitive technical solutions concerning telecommunications system architectures, interoperability, expansion potential, and overall end-to-end compatibility and net centricity. Interacting with the public, licensees of various radio services, private industries, other government agencies, and representatives of foreign governments. Representing the Bureau in meetings within and outside the agency. Conducting formal and on-the-job training of co-workers, new recruits, clients, and participants of the United States Telecommunication Training Institute (USTTI). END

Young Amateurs Radio Club to Host Inaugural Special Event

The Young Amateurs Radio Club (YARC) will host their first annual youth-organized special event from September 1 - 15, 2022. Using their call sign, WY4RC, the event is known as "Worked All YARC Zones (WAYZ)." Operators will be activating WY4RC stations from all 10 US call zones. Different awards are available for youth operators who activate a station, and for those who contact at least six WY4RC stations.

Any young amateur or club interested in operating during the event can find the rules and additional information at the [Young Amateurs Radio Club](#) website.



YARC, founded in 2017, is an international amateur radio club with a focus on promoting adoption and innovation in amateur radio among young people. In 2018 the club was officially recognized by the FCC as an official amateur radio club under the call sign WY4RC.

YARC has over 1,000 members on their Discord server as of 2022, and has been changing its structure to bring back community events and increase engagement. End

Cedar City Half Marathon



September 10, 2022 Rainbow Canyons Amateur Radio Club (RCARC) members are on target to support the Cedar City Half Marathon with race communications.

The Cedar City Half Marathon is a perfect high-altitude trainer for those preparing for full marathons, including the Saint George Marathon which is held only a few weeks later.

This 13.1-mile closed-canyon course is one of the nation's fastest courses. Runners descend from 8,408 feet in elevation to 5,600 feet at the finish line.



If you are interested in participating in this event contact Ron Shelley (K7HDX) at ronald.shelley@gmail.com



Fall is just around the corner

New Frisco Peak Repeater Trustee Elected



At the August RCARC General Membership meeting George Gallis (AL7BX) was nominated by Fred (KI7TPD) and seconded by Brody (K7VXV) to become the next trustee of the Frisco Peak Repeater and was elected by a unanimous vote of those in attendance. Frisco Peak is part of the Utah VHF Society Intertie system.

Frisco Peak is located in Milford, Utah. The repeater covers Delta, Cedar City and other parts of Southern Utah and Eastern Nevada. Congratulations George.



George Gallis elected Frisco Peak Repeater Trustee

FEMA Modernizes Mobile App to Improve User Experience

After a year of working with designers, programmers, and disaster survivors, FEMA rolled out new features and a new design for the mobile app, which should increase engagement for the 2022 hurricane and wildfire seasons.

The app is designed to be a tool that empowers survivors with the information they need to make informed disaster decisions. With this app you will:

- Be Informed. Get the information you need to make disaster decisions for your family.
- Access your disaster toolkit. The FEMA resources you need are always in hand.
- Personalize your app experience. Get preparedness information, alerts, sheltering and assistance information specifically tailored to your location.
- Feel in control. Use the FEMA App to understand how to prepare for a disaster and where to go during one. Customize the information you receive so it's always just a click away.

Learn more by watching the [FEMA App animation](#) and visiting the [App web page](#). Current users will need to update their app and enter profile information but will not need to re-download it to access new features. If you haven't downloaded the app yet, do it today and be better prepared for disasters. - *FEMA news release*

Note

RCARC September Club Breakfast

The September club breakfast will be at Golden Coral, 1379 S. Main Street, Cedar City. Start time: 9:00 am.

RCARC EComm Unit Participates in Cedar City Airport Recertification Exercise.

On Thursday August 16, 2022 RCARC EComm Members participated in the Cedar City Airport Recertification Exercise which was a midair aircraft collision.

A request by the Iron County's Emergency Manager to activate the RCARC EComm unit members was placed.

EComm members were asked to report to the scene and check in. Members were then assigned to work with the medical units at the triage sites and patient transport locations.

Additional members reported to the Cedar City Hospital Emergency Operations Center (EOC) to receive patient information (*via Amateur radio using both analog and digital transmissions*) that were in triage and their status such as immediate, delayed and those not injured. RCARC members reported to the EOC when patients were transported by ground ambulances, helicopters and fixed wing aircraft. [See Pictures below:](#)



Exercise is under way

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RCARC EComm Unit Participates in Cedar City Airport Recertification Exercise. Continued from page 15



EComm members waiting for transport to the Triage Area.



Additional, EComm Members waiting for transport.



Ken Richter (KR7KR) observing Triage Area. Note red tarp on left side of picture. Continued next Column



Incident victims being triaged and awaiting transport.



Vernile (K7DVP) reporting information to net control for digital transmission to the Cedar City Hospital EOC.



Cedar City Rescue personnel conducting triage on incident victims. Continued on page 18

June Pacific Northwest Exercises Bring New Level of Collaboration Between Emergency Management and Response Organizations

Six preparedness activities focusing on the next full-length megathrust rupture in the Cascadia Subduction Zone were described in the [May 2022 edition of the ARES Letter](#). In the exercises, which involved operational communications, amateur radio participation was well-received and appreciated.

On Thursday and Friday, June 9 and 10, the National Tribal Emergency Management Council (NTEMC) kicked off their Thunderbird and Whale 2022 Exercise with a "cold start" EOC setup. Meanwhile, hams on the east side of Washington stood by to collect simulated situation reports (SITREPs) from amateur radio stations in the affected areas closer to the coast. This effort didn't work out as planned due to poor cross-state band conditions on HF. Members of the Kitsap (County) Auxiliary Radio Service and the Seattle Auxiliary Communications Service provided ham radio communications at the NTEMC's EOC.

During this period, a complete commercial communications interruption was part of the exercise plan. "We told everybody they had to turn off their cell phones and couldn't use their laptops or answer email or text messages," said Lynda Zambrano, KE7RWG, the Executive Director of the NTEMC. Winlink via HF was used to request a SatCOLT (Satellite Cell on Light Truck) from [FirstNet](#), and that arrived at the EOC the next day. One side note of interest: two of the ham radio volunteers at the NTEMC EOC are mathematicians who have conducted tsunami impact modeling and published studies of shorelines along the northern Washington coastline.

Continued next column

On Wednesday and Thursday, June 15-16, radio amateurs in Clark, Lewis, Pacific, and Skamania counties traveled to bridges on state and federal highways in their local areas and performed "Level 1 Post Earthquake Bridge Inspections," and radioed these to the EOC at the Washington State Department of Transportation (WSDOT) via both voice and HF Winlink. Several of the radio paths didn't work as planned, but the hams involved easily adapted and found alternate frequencies without missing a beat. At the end of the exercise, Monique Rabideau, KG7IJI, the Southwest Region Emergency Manager at WSDOT, sent an email to the radio volunteers saying "You are all ROCK STARS! Thank you so much for your work to make this a reality for this exercise!!!"

On Saturday, June 18, the single day Washington Disaster Airlift Response Team (DART) DART/EVAC Functional Exercise took place, delivering 25,000 pounds of food via general aviation aircraft to multiple food banks in northwest Washington. Communications between airports were supported by dozens of ham radio volunteers from Clallam, Grays Harbor, Island, Jefferson, King, Walla Walla, and Whatcom counties.

Also on Saturday, June 18, the United States Volunteers - Joint Services Command (USV-JSC) supported the NTEMC response by activating their national and (several) regional commands. Ham radio volunteers set up temporary stations in [California](#), Florida, Virginia, and Washington, and passed ICS-213 forms (mostly SITREPs) on Winlink. Using ham radio communications was new to the USV-JSC commanders, and they were impressed by the support.

On Saturday, June 18, through Tuesday, June 21, the Oregon Disaster Airlift Response Team (DART) held a functional exercise and delivered nearly 5,000 pounds of food via general aviation aircraft to tribes in Southwest Washington, Oregon, and Northern California.

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RCARC EComm Unit Participates in Cedar City Airport Recertification Exercise. Continued from page 16.



Exercise winding down and EComm members waiting for transport back to their vehicles.



Fixed wing aircraft used for patient transport



Med Helicopter used for patient transport

Continued next column



Additional Exercise is underway Pic.



Helicopter crash simulation Pic.



Additional Triage Pic.

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June Pacific Northwest Exercises Bring New Level of Collaboration Between Emergency Management and Response Organizations

Continued from Page 16

Due to amateur radio support for competing exercises in Oregon, only five airports were staffed by volunteers with portable HF Winlink stations, the backbone for tracking aircraft arrivals and departures. The hams at the Newport (Oregon) airport also set up ADS-B tracking to watch for incoming flights. The food delivery to the [Confederated Tribes of Siletz Indians](#) at the Newport airport was recorded by a Discovery Channel film crew, and the estimated air date for this footage is February 2023.

This group of exercises stimulated a new level of collaboration between emergency management and response organizations throughout a wide geographical footprint. The communications portion could not have been carried out without hams in the Eastern Washington, Los Angeles, Oregon, San Francisco, Southern Florida, Virginia, and Western Washington sections all working together. -- *Steve Aberle, WA7PTM, Assistant Director, ARRL Northwestern Division*

ARRL Simulated Emergency Test: Consider Running It Under the ICS

Continued from Page 11

These positions are a valuable resource and should be utilized whenever possible during both the pre-planning and response to planned events, unplanned events, and exercises.

The ARRL Simulated Emergency Test weekend is October 1-2 this year, but groups are free to conduct their local and Section-wide exercises at any time throughout the fall. The annual SET encourages maximum participation by all amateur radio operators, partner organizations, and national, state, and local officials who typically engage in emergency or disaster response.

Continued next column

In addition to ARES volunteers, radio amateurs active in the National Traffic System, Radio Amateur Civil Emergency Service (RACES), SKYWARN, Community Emergency Response Team (CERT), and a variety of other allied groups and public service-oriented radio amateurs are needed to fulfill important roles in this nationwide exercise.

The SET allows volunteers to test equipment, modes, and skills under simulated emergency conditions and scenarios. Individuals can use the time to update a "go-kit" for use during deployments and to ensure their home station's operational capability in an emergency or disaster. To get involved, contact your local ARRL Emergency Coordinator or Net Manager. Check on upcoming planned activities through local, state, or Section-wide nets.

Consider developing your group's SET plan by using the Department of [Homeland Security's Exercise and Evaluation Program](#) (HSEEP). Exercises are a key component of national preparedness -- they provide the whole community with the opportunity to shape planning, assess and validate capabilities, and address areas for improvement. HSEEP provides a set of guiding principles for exercise and evaluation programs, as well as a common approach to exercise program management, design and development, conduct, evaluation, and improvement planning.

An Example of Excellence

This year's SET in Florida is titled "Service DENIED" with the scenario of a statewide cyber-attack that impacts the state's communications infrastructure. While ARES teams based in Florida are accustomed to hurricane activations, a cyber-attack has just as much chance of occurring with even less notice (if any) than a hurricane. The slogan we all see, "When all else fails, ham radio works," would truly pick up its real meaning with a full communications infrastructure outage.

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ARRL Simulated Emergency Test: Consider Running It Under the ICS

Continued from Page 19

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Mark your calendar! "Iron Mission Days"

RCARC and Frontier Homestead State Park will join forces to celebrate "Iron Mission Days"

Date: November 11 & 12, 2022.

Time: Normal business hours (9am to 6pm) both days.

Reason: **COMMEMORATING** the **171st** anniversary of the first Iron Works in the Rocky Mountains.

Operation: 2 HF radios and live operators making contacts with the outside world from *Frontier Homestead State Park & Museum!*

We have a unique situation for this event. We will operate a normal Special Event station, using the special call sign, N7U and simultaneously send out a POTA (Parks on The Air) operation number!

It is suggested we schedule operators for a 2-hour shift at the microphone, both days for a total of 18 hours on the air.

Bring your lunch, drinks and family and have *FUN!* handing out contacts during this annual celebration event.

Details to follow soon! END.

International Space Station Upgrades Amateur Radio Operations

ARISS, Amateur Radio on the International Space Station, announced that simultaneous operations of the ARISS voice repeater and digital APRS (Automatic Packet Reporting System) communications on the Space Station are now a reality.



NASA Astronaut Kjell Lindgren, KO5MOS, tweeted this photo of the ham radio station in the Columbus module, just before ARRL Field Day in June. <https://tinyurl.com/2p9cr53f>

Current ARISS operations include voice repeater transmissions with the JVC Kenwood TM-D710GA in the Columbus module and APRS operation from an identical radio in the Zvezda module. Packet operations are on 145.825 MHz.

The Columbus module radio uses the call sign NA1SS and the new radio in Zvezda uses RS0ISS. Aside from the call signs, the radios are identical, and packet operations are the same as before. You can use RS0ISS, ARISS, or APRSAT as the packet path. Both radios are expected to be running full time, except during educational contacts, extra vehicular activities (EVAs), and docking maneuvers. Final checkouts and equipment activation occurred on August 11.

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Continued on page 21

International Space Station Upgrades Amateur Radio Operations

Continued from page 20

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ARISS International Chair Frank Bauer, KA3HDO, said, "Simultaneous operation of APRS and the voice repeater on ISS is transformative for ARISS. It represents a key element of our ARISS 2.0 initiative, providing interactive capabilities 24/7 that inspire, engage, and educate youth and lifelong learners -- especially lifelong learning in ham radio operations. Our heartfelt thanks to Sergey Samburov, RV3DR, for making this crucial ARISS 2.0 initiative become a reality."

Rosalie White, K1STO, one of two US delegates to ARISS, said the ham radio community will be very happy with the new radio operations from the ISS. "Hams really love doing ARISS packet, cross-band repeater, and Slow-Scan Television (SSTV) operations. Besides the thousands who download ARISS SSTV images downlinked from the ISS, we discovered that in a year's time, hams did 80,000 ARISS packet messages," she said. "We are not sure how many have been enjoying the ARISS cross band repeater, but we know it is a lot. This simultaneous operation capability is going to make many hams happy -- and we know that keeping hams on the air is good for ARRL and good for amateur radio," White added.

Operational status and expected downtimes of the ISS radios can be found at www.ariss.org/current-status-of-iss-stations.

ARISS is a cooperative venture of international amateur radio societies and space agencies that support the ISS. In the US, sponsors are the Radio Amateur Satellite Corporation (AMSAT),

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[ARRL](http://www.arrrl.org) The National Association for Amateur Radio®, and NASA's Space Communications and Navigation (SCaN) program. The primary goal of ARISS is to promote exploration of science, technology, engineering, arts, and mathematics topics. ARISS does this by organizing scheduled contacts via amateur radio between crew members aboard the ISS and students. Before and during these radio contacts, students, educators, parents, and communities take part in hands-on learning activities tied to space, space technologies, and amateur radio. For more information, see www.ariss.org and www.arrrl.org/amateur-radio-on-the-international-space-station.

RCARC EComm Unit Participates in Cedar City Airport Recertification Exercise. Continued from page 18.



George Colson (Iron County's Emergency Manager) addressing the troops.

RCARC EComm Unit Meets for Quarterly Meeting.

On Thursday August 18, 2022 RCARC EComm members came together for their regularly scheduled quarterly meeting. After a short business session, the discussions ensued on the Cedar City Airport Recertification (Aircraft Crash) Exercise that took place two nights before.

Participating EComm members were asked to monitor the exercise triage areas as well as patient transport locations. Their assignment was to provide through both analog and digital Ham radio transmissions the number of patients in triage by tarp color and when patients/victims were being transported to the hospital as well as the transport method i.e., ground or air to the Cedar City Hospital's Emergency Operations Center (EOC).

Under the Incident Command System (ICS) colored Triage Tarps are used for categorizing patient/victims as follows:

Black Tarp: Deceased.

Red Tarp: Immediate: Life-threatening injuries.

Yellow Tarp: Non-life-threatening injuries.

Green Tarp: Minor injuries.

The triage areas are a very fluid environment as patients/victims are brought to triage for medical attention and transport to a medical facility by Air, or ground units.

Continued next column

Members discussed the what went well and those things that didn't go well.

In summary:

- There was some discussion if amateur radio operators were in the way, a review found we are not in the way.
- Hospital had no comms with Unified Command. Could have had if hams would have been embedded.
- Obtaining patient tracking is a big problem for the hospital as they do not receive time sensitive info from EMS. This arena is where the ham operators really helped but in house it was felt we could do better.
- Survivors being re-triaged created a challenge. One of our members has worked out a formula he hopes will alleviate this.
- Reporting accurate numbers both incoming and leaving the triage area to the Hospital EOC will be very important.
- There will be further discussions on how to refine and streamline our involvement to meet the needs of the incident Command staff and the hospital EOC.



Jody Johnson (CEDAR City Hospital) and Brad (W7HHE) discussing the exercise with the group.



Silent Key

David Frank Harris - N7NKK

Panguitch, Utah

Obituary

David Harris - N7NKK
Panguitch, Utah

David (N7NKK) Frank Harris, age 83, of Panguitch, Utah was reunited with his dear wife Karran, of 57 years, on August 1, 2022. Dave was born on June 3, 1939, to Boyd David Harris and Edith Louise Spencer in Mammoth, Utah. He was sealed to Karran Domgaard on May 24, 1963 in the Manti, Utah Temple. She preceded him in death on April 17, 2020.

Family, friends, and helping in the community were his core values. He believed in good behavior and when leaving the house, you were reminded to "remember who you are and what you represent."

He was an avid outdoors man, enjoying everything from fishing, shooting, and hunting to just taking a drive in the back country. He especially enjoyed it when his family joined him on these adventures.

Being an amateur radio operator was a core part of his life. He spent many hours building, maintaining, and using his radios. He enjoyed connecting with people from all over the globe and many of his closest friends came to him through radio.

He enjoyed being involved in the community helping on projects and serving in Jeep Posse, scouting and youth sports. It was common to find Dave behind the scorer's table at many different sporting events. He will always be remembered by many when they see the horseshoe pits in Panguitch, Utah as he was vital in the planning and construction of them.

In his later years, he loved to tell stories to all that would listen of his life's adventures. Many of these were of his years working in the Forest Service. He had many roles including working range, running communications at fires, and being a civil engineer. He loved his time at the Forest Service and enjoyed working in a role where he wasn't tied to a desk.

He is survived by his four children and their spouses: Dan (Sharon) Harris, Wendy (Ted) Randall, Russell (Daja) Harris, and Brian (Heather) Harris. He is well loved and will be missed by his grandchildren: Aaron and Allie Harris, Shanae (Steven) Nay, Tysha (Steven) Moore, Chaylee and Brynli Randall, Evin, Braxton, Quinlan, and Dustin Harris, and Alex and Tyler Harris; as well as his great-grandchildren: Jacob, Rosie, Nathan, and Dylan Nay and Luke, Melody, Jeremy, + one Moore. He is also survived by his sister Joan (Ben) LeSieur; his brothers: Bob (Mary) Harris, and Ron (Pam) Harris.

He was preceded in death by his beloved wife Karran; his parents, Boyd and Edith; and his two sisters: Betty (Andy) Anderson and Patsy Harris. He is loved and will be missed by the Harris and Domgaard families.

Graveside services will be held on Monday, August 8, 2022 at 1:00 pm at the Provo Cemetery with a short viewing at noon. Funeral Directors: Magleby Mortuary, Richfield, Salina and Manti.

Online guestbook <https://www.maglebymortuary.com/obituary/David-Harris>